

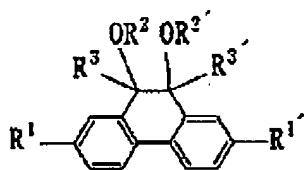
Serial No. 10/598,107

PATENT
Docket No. 075954-010300RECEIVED
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AMENDMENTS TO THE CLAIMS**Claim 1 (currently amended):** A dihalide represented by the following formula:

[Formula 1]



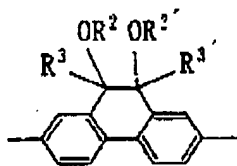
(wherein R^1 and R^1 represent a halogen, R^2 and R^2 represent ~~an alkyl group or a silyl group~~ having a substituent, and R^3 and R^3 represent a hydrogen or an alkyl group).

Claim 2 (previously presented): The dihalide group according to claim 1, wherein the silyl group having the substituent is at least one selected from the group consisting of $Si(CH_3)_3$, $Si(n-C_4H_9)_3$, $Si(t-C_4H_9)_3$, $Si(CH_3)_2(C_6H_5)$ and $Si(CH_3)_2(n-C_{18}H_{37})$.

Claim 3 (previously presented): The dihalide according to claim 1 or 2 wherein the alkyl group is an alkyl group having a carbon number of 1-20.

Claim 4 (currently amended): A polymer compound having a structure represented by the following formula in its main chain:

[Formula 2]

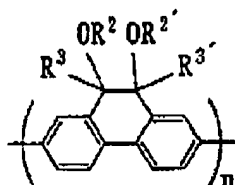


(wherein R^2 and R^2 represent ~~an alkyl group or a silyl group~~ having a substituent, and R^3 and R^3 represent a hydrogen or an alkyl group).

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Claim 5 (currently amended): The polymer compound according to claim 4, which is represented by the following formula:

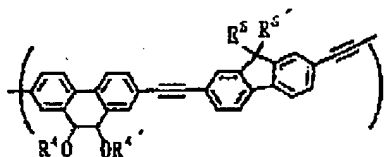


(wherein R^2 and $R^{2'}$ represent an alkyl group or a silyl group having a substituent, and R^3 and $R^{3'}$ represent a hydrogen or an alkyl group, and n represents a polymerization degree and is 5-1000).

Claim 6 (previously presented): The polymer compound according to claim 4, which is a copolymer comprising the structure represented by the formula claimed in claim 4 and another structure.

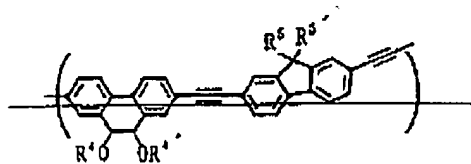
Claim 7 (currently amended): The polymer compound according to claim 5 wherein the copolymer is at least one selected from the group consisting of the following formulae:

[Formula 4]



(wherein R^4 , $R^{4'}$, R^5 and $R^{5'}$ represent an alkyl group),

[Formula 4]

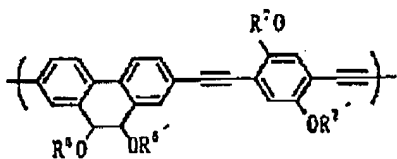


(wherein R^4 , $R^{4'}$, R^5 and $R^{5'}$ represent an alkyl group),

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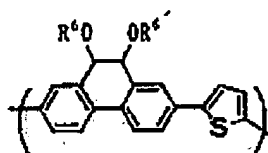
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[Formula 5]



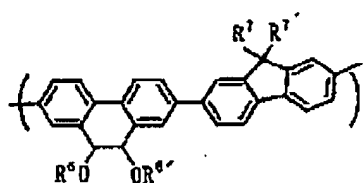
(wherein R⁶ and R^{6'} represent ~~an alkyl group or~~ a silyl group having a substituent, and R⁷ and R^{7'} represent an alkyl group),

[Formula 6]



(wherein R⁶ and R^{6'} represent ~~an alkyl group or~~ a silyl group having a substituent),

[Formula 7]

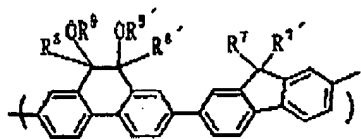


(wherein R⁶ and R^{6'} represent ~~an alkyl group or~~ a silyl group having a substituent, and R⁷ and R^{7'} represent an alkyl group), and

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[Formula 8]

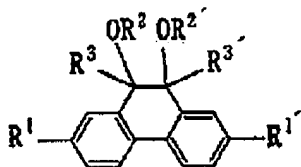


(wherein R^7 , R^7' , R^8 , R^8' , R^9 and R^9' represent an alkyl group).

Claim 8 (previously presented): The polymer according to claim 4 wherein the alkyl group is an alkyl group having a carbon number of 1-20.

Claim 9 (currently amended): A method for producing a polymer compound, in which a polymer compound as claimed in claim 4 is obtained by dehalogenation -polymerizing a dihalide represented by the following formula:

[Formula 1]



(wherein R^1 and R^1' represent a halogen, R^2 and R^2' represent an alkyl group or a silyl group having a substituent, and R^3 and R^3' represent a hydrogen or an alkyl group).

Claim 10 (previously presented): The method for producing a polymer compound according to claim 9, wherein the dehalogenation-polymerization is performed in the presence of palladium or nickel compound.

Claim 11 (previously presented): A thin film obtained by using polymer compound as claimed in claim 4.

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Claim 12 (previously presented): The method of claim 9 wherein the silyl group having the substituent is at least one selected from the group consisting of $Si(CH_3)_3$, $Si(n-C_4H_9)_3$, $Si(t-C_4H_9)_3$, $Si(CH_3)_2(C_6H_5)$ and $Si(CH_3)_2(n-C_{18}H_{37})$.

Claim 13 (previously presented): The method for producing a polymer compound according to claim 12, wherein the dehalogenation-polymerization is performed in the presence of palladium or nickel compound.

Claim 14 (new): The polymer compound of claim 4 wherein the polymer compound is soluble and has at least one of a heat resistance, electrochemical activity, and fluorescence.

Claim 15 (new): A method for producing 2,7-dibromo-trans-9,10-dihydrophenanthrene-9,10-diol, which comprises the step of adding titanium tetrachloride and zinc to 4,4'-dibromobiphenyl-2,2'-dicarbaldehyde.